

Dr 240-3663

By 3696-3730

Nest Hyd. #3696
" Di. #3645.
" Int. # 65.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

S.P.S. Not for Record
H.C.S.

No. *34* Date *August 29 96*

Chamber Machine. Reel.

Turns *34* Cor. + *0* Depth *34 fms.*

Shot or lead *16 lb*

Bottom *bu M*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *52* Surface *49* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>10 02</i>	<i>10 03</i>	0		
		<i>34</i>		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Log 698

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

M.H.
507.

No. **3645** *DS*

Date *Aug 31, 96*

Hand lead

Machine.

Reel.

Turns — Cor. + — Depth **10 fms.**

Shot or lead

Bottom

S

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

52

Surface

47

Drift

Trawl ~~on dredge~~

8 ft. Beauv.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>Am</i> <i>8-34</i>		0	<i>2.11</i> <i>8.34.40</i>	<i>47.10</i>
		20 100	<i>37.35</i>	<i>8.15.55</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Robben Id: Pos. $48^{\circ} 31' 30''$ N
 $144^{\circ} 43' 48''$ E

South Bluff, Robben Id	Depth	E x S.
Swintehi Kamen	2600	NE x E
Ship's head	2700	NE x E.
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2 small Sculpin, few Shrimps, hermit crabs, Sponges (2 sp) and shells.

All these stations in the vicinity of Robben Id are to the westward of that island ranging from about 2 to 10 miles. There being no chart no nearer location can be given.

J.H.H.
607.

No. *3646 D-* Date *Aug. 31, 96*
Tanner Machine. Reel

Turns *18* Cor. + *0* Depth *18 fms*

Shot or lead *26 lbs.*

Bottom *fine gy. S.*

Bottom temperature

No. of thermometer *—* Cor.

Corrected temperature

Air *54* Surface *47* Drift

Trawl or dredge *8 ft. Beam*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>a.m. 9.00.10</i>	<i>00.30</i>	<i>0</i>	<i>a.m. 9.04.05</i>	<i>25.30</i>
<i>15</i>	<i>9.00.18</i>	<i>35</i>	<i>06.00</i>	
		<i>100</i>	<i>11.35</i>	
		<i>40</i>	<i>19.45</i>	<i>9.23.10</i>
		<i>200</i>		
		<i>45</i>		
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Robben Id.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

OK

South Bluff, Robben Id.

Switchi Lamen

Ship's head

East

N 71° E.

WSW.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 large Sculpin, 1/2 doz small Sculpin, 2 Agonidæ, 1/2 doz Limnanda, few Shrimps, Crabs and Sponges. 1/2 doz Starfish.

501. *J.H.*

No. *3647 D-* Date *Aug. 31, 96*
Tanner Machine. Reel.

Turns *20* Cor. + *0* Depth *20 fms.*

Shot or lead *26 lbs.*

Bottom *fine gy. s.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *55* Surface *47* Drift

Trawl or dredge *8 ft. Beam*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.29.37</i>	<i>30.20</i>	0	<i>9.33.35</i>	<i>58.15</i>
<i>29.50</i>	<i>9.29.50</i>	40	<i>35.25</i>	
		100	<i>44.15</i>	<i>9.56.10</i>
		<i>45</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Robben Id. Va

OK
South Bluff. Robben Id
Switchei Kamen
Ship's head

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

E 1/2 S.
N 74° E.
WSW.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 large Lobster with 2 legs
small
2 small lobsters, 1 small shrimp
and 1 shrimp 2 legs
2 fish

No. *3648 82* Date *Aug 3 96**anner* Machine. Reel. *1*Turns *20* Cor. + *0* Depth *20 fms*Shot or lead *26 lbs*Bottom *fine gy S*

Bottom temperature

No. of thermometer *—* Cor.

Corrected temperature

Air *56* Surface *47* DriftTrawl or dredge *8 ft Beam*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>10 06.20</i>	<i>10</i>	0	<i>10 06.20</i>	<i>10</i>
<i>00.55</i>	<i>10</i>	100	<i>00.55</i>	<i>10</i>
		200	<i>18.10</i>	<i>10 08.45</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
South Cliff, Rotten Id.	2900	S 82° E.
Switzer's Kamen	3000	N 81° E.
Ship's head	3100	W 5 W.
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 large *Antiparus* 1 small
Sceloporus, 2 by *Urotaenia* 3 by
 few *Streplosia* and *Chamaeleo*
 2 *Phrynosoma* etc.

No. *3649* *B* Date *Aug 21 1876*

Machine. Reel.

Turns *25* Cor. + *0*Depth *25 fms*Shot or lead *26 lbs*Bottom *fine dk. S.*

Bottom temperature

No. of thermometer *—* Cor.

Corrected temperature

Air *57* Surface *50* DriftTrawl or dredge *8 ft Beam*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

50

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

(Pabben. Va.

	2500	
	2600	
OK	2700	
	2800	
Robben Island	2900	8 1/2 S. 5 1/2 '.
Ship's head	3000	W 8 W.
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 Large brownish sand & small
 Crabs, pteropods, Echinoderm
 Hydrozoa and Sponges
 2 small shells

[Signature]

No. **3650** *82* Date *July 3 1896*

Machine. Reel.

Turns **28** Cor. + **0** Depth **28 fms.**

Shot or lead **26 lbs.**

Bottom *br M. S.*

Bottom temperature **35.2**

No. of thermometer **66665** Cor. **0**

Corrected temperature **35.2**

Air **57** Surface **50** Drift

Trawl or dredge **8 ft beam**

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Robb... Is.

OK Robben Island Ships Head	2500	S 18° E. 6' 1857	
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Obs. 11.54 feet from surface for 22 minutes.			
100				
200	Sample in 2 minutes.			
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 small brownish, 2 small brownish,
few 2 brownish, 1 small brownish
and white several species, 1 large
brownish 1 small brownish 2 yellowish

597 *11-20*

No. *3651 82* Date *August 19 95*

Camm. Machine. Reel.

Turns *20* Cor. + *0* Depth *20 fms*

Shot or lead *16 lb*

Bottom *fine gy S.*

Bottom temperature


No. of thermometer Cor.

Corrected temperature

Air *53* Surface *47* Drift

Trawl or dredge *Ag. Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11-25</i>	<i>1-20-20</i>	0	<i>1-20-10</i>	<i>4-20-40</i>
<i>24-55</i>	<i>1-20-00</i>	100	<i>28-28</i>	<i>1-40-50</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

 Robben Island	2500	SE $\frac{1}{4}$ E. (pc.)
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
3900		
4000		

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

2 Gambusia, 1 Ctenodon, 10 small fish.
1 Laetodon, 10 small fish.

No. *3696* Date *Sept 1 1881*

Machine. Reel.

Turns *20* Cor. + - Depth *20*

Shot or lead *26 lb*

Bottom *fine s + ppt*

Bottom temperature *40.0*

No. of thermometer *66665* Cor.

Corrected temperature *40*

Air *55* Surface *47* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN. UP.

TURNS.

DREDGE ROPE.

DOWN. UP.

*This sounding 5' 10" from point of departure
7' 539 ft. from Robben Island.*

*0
20
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400*

5076 ft.

48° 22' 00" N
144° 11' 00" E

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3697* Date *Sept 2, '96.*

Tanner Machine. Reel.

Turns *70* Cor. + *1*Depth *71 fms.*Shot or lead *26 lbs.*Bottom *Al 7^m*Bottom temperature *51*No. of thermometer *66665* Cor. - *0*Corrected temperature *51.0*Air *54*Surface *55*

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>P.M.</i>				
<i>9.03.20</i>	<i>05.05</i>	<i>0</i>		
<i>04.00</i>	<i>04.05</i>	<i>100</i>		
		<i>200</i>		
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

48° 05' N
145° 01' E

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

15.30
10
1.41.6

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3698* *Hyd* Date *Sept 26**Tanner* Machine. Reel.Turns Cor. + Depth *700*Shot or lead *16 lb*

Bottom

Bottom temperature

No. of thermometer *66665* Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*1.23.00**29.10**0**24.00**27.25**100**25.25**1.25.40**200**no bottom**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400**See**Next**20' bottom*

over

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

530

5-

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3698-472*, Date *Sept 5 96*
Sigsbee Machine. Reel. *Ham*
 Turns *589* Cor. + *42* Depth *631 fms.*
 Shot or lead *35 lb*
 Bottom *gn M & S.*
 Bottom temperature *37°*
 No. of thermometer *66665* Cor. - *0*
 Corrected temperature *37.0*
 Air *54* Surface *54* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>1. 32.20</i>	<i>45.55</i>	0		
<i>33.48</i>	<i>45.00</i>	100		
<i>34.55</i>	<i>44.10</i>	200		
<i>36.05</i>	<i>43.25</i>	300		
<i>37.13</i>	<i>42.42</i>	400		
<i>38.25</i>	<i>41.53</i>	500		
<i>39.35</i>	<i>41.10</i>	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

47 43 12
145 28 8

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4169 158
589 116
5580 72
589
681

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3699 Hyd. Date

Machine.

Reel.

Turns 1488 Cor. + 96

Depth 1584 fms

Shot or lead 35 lb.

Bottom

Bottom temperature 35.9

No. of thermometer 66665 Cor. - 0

Corrected temperature 35.9

Air 53 Surface 57 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11:00	12:50	0
11:05	12:55	100
11:10	13:00	200
11:15	13:10	300
11:20	13:20	400
11:25	13:30	500
11:30	13:40	600
11:35	13:50	700
11:40	14:00	800
11:45	14:10	900
11:50	14:20	1000
11:55	14:30	1100
12:00	14:40	1200
12:05	14:50	1300
12:10	15:00	1400
12:15	15:10	1488
12:20	15:20	1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

30' Interval

47° 20' 30" N
145° 54' 00" E

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

1210.7
148.8
253.1

108
62
0.3
148.8
158.2

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3700* *Hyd.* Date *Sept 3, 96*

Machine. Reel.

Turns *1713* Cor. + *105* Depth *1818 fms*Shot or lead *60 lbs.*Bottom *gn M. fine S.*Bottom temperature *35.9*No. of thermometer *66665* Cor. *-0*Corrected temperature *35.9*Air *57* Surface *58* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

29 9/10' Interval

46° 58' N
146° 20' E

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

470 58
12 2 05
21 5 10
1000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Check water level 11 min. at 11:00

No. *3701 Hyd.* Date *Sept 11**Sigsbee* Machine. Reel. *No. 1*Turns *1715* Cor. + *10.5* Depth *1825.5 fms*Shot or lead *60 lb*Bottom *lt. br. m. s.*Bottom temperature *36°*No. of thermometer *6555* Cor. *-0*Corrected temperature *36.0*Air *62* Surface *55* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*10.00**10.00*

0

*11.00**11.00*

100

*12.00**12.00*

200

*13.00**13.00*

300

*14.00**14.00*

400

*15.00**15.00*

500

*16.00**16.00*

600

*17.00**17.00*

700

*18.00**18.00*

800

*19.00**19.00*

900

*20.00**20.00*

1000

*21.00**21.00*

1100

*22.00**22.00*

1200

*23.00**23.00*

1300

*24.00**24.00*

1400

*25.00**25.00*

1500

*26.00**26.00*

1600

*27.00**27.00*

1700

*28.00**28.00*

1800

*29.00**29.00*

1900

*30.00**30.00*

2000

*31.00**31.00*

2100

*32.00**32.00*

2200

*33.00**33.00*

2300

*34.00**34.00*

2400

6.5 fms
28.00
29.00
30.00
31.00
32.00
33.00
34.00

46 35 12
14-6 4-9 E

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. **3702** Date **Sept 12 1898**
 Machine. Reel.

Turns **1712** Cor. + **105** Depth **1817 fms.**
 Shot or lead **60 lb**
 Bottom **gy. m. + f. m. s.**
 Bottom temperature **35.8**
 No. of thermometer **6666** Cor. **-0**
 Corrected temperature **35.8**
 Air **55** Surface **55** Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1712	21.40	0		
1700	21.30	100		
1650	21.20	200		
1640	21.10	300		
1630	21.00	400		
1620	20.50	500		
1610	20.40	600		
1600	20.30	700		
1550	20.20	800		
1540	20.10	900		
1530	20.00	1000		
1520	19.50	1100		
1510	19.40	1200		
1500	19.30	1300		
1450	19.20	1400		
1440	19.10	1500		
1430	19.00	1600		
1420	18.50	1700		
1410	18.40	1800		
1400	18.30	1900		
1350	18.20	2000		
1340	18.10	2100		
1330	18.00	2200		
1320	17.50	2300		
1310	17.40	2400		

Interval 30"
 1817 fms.

46 15 7L
147 07 2

O.K.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

410

10-5

1712

5-2

245

10-5

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. **3703** *Hyd.* Date *June 1 - 1880*

Machine. Reel.

Turns **1729** Cor. + **105** Depth **1825 fms**Shot or lead **60**Bottom *gr. M. fine S*

Bottom temperature

No. of thermometer **66660** Cor. **-0**Corrected temperature **36.0**Air **53** Surface **54** Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

30' interval

45° 48' N

147° 22' E

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

At 2.08.30, 1527 fms. out
wire hauled.

No. *3704* *Hyd.* Date *Sept. 21/96*
Machine. Reel. *Hand*
 Turns *1658* Cor. + *103* Depth *1761 fms.*
 Shot or lead *60 lb*
 Bottom *Gr. M. fine S.*
 Bottom temperature *35.9°*
 No. of thermometer *66665* Cor. *-0*
 Corrected temperature *35.9*
 Air *53* Surface *53* Drift
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>08 00</i>	<i>45 07</i>	0
<i>09 00</i>	<i>44 08</i>	100
<i>10 00</i>	<i>43 10</i>	200
<i>11 00</i>	<i>42 10</i>	300
<i>12 00</i>	<i>41 12</i>	400
<i>13 00</i>	<i>40 13</i>	500
<i>14 00</i>	<i>39 15</i>	600
<i>15 00</i>	<i>38 15</i>	700
<i>16 00</i>	<i>37 15</i>	800
<i>17 00</i>	<i>36 15</i>	900
<i>18 00</i>	<i>35 15</i>	1000
<i>19 00</i>	<i>34 15</i>	1100
<i>20 00</i>	<i>33 15</i>	1200
<i>21 00</i>	<i>32 15</i>	1300
<i>22 00</i>	<i>31 15</i>	1400
<i>23 00</i>	<i>30 15</i>	1500
<i>24 00</i>	<i>29 15</i>	1600
<i>25 00</i>	<i>28 15</i>	<i>1658</i>
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

10' Interval.

45° 40' N
147 28 E

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4169
1658

157

157

157

1658

1761

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

5075 *SR*

No. *3705 Hyd.* Date *June 4/00*

Machine. *Reel. Name.*

Turns *1010* Cor. + *68* Depth *1078 fms*

Shot or lead *60 lb*

Bottom *br. M. fine S.*

Bottom temperature *36.2*

No. of thermometer *66665* Cor. *- 0*

Corrected temperature *36.0*

Air *53* Surface *54* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6:10</i>	<i>11:50</i>	0		
<i>6:15</i>	<i>11:45</i>	100		
<i>6:20</i>	<i>11:40</i>	200		
<i>6:25</i>	<i>11:35</i>	300		
<i>6:30</i>	<i>11:30</i>	400		
<i>6:35</i>	<i>11:25</i>	500		
<i>6:40</i>	<i>11:20</i>	600		
<i>6:45</i>	<i>11:15</i>	700		
<i>6:50</i>	<i>11:10</i>	800		
<i>6:55</i>	<i>11:05</i>	900		
<i>7:00</i>	<i>11:00</i>	1000		
<i>7:05</i>	<i>10:55</i>	<i>1010</i>		
<i>7:10</i>	<i>10:50</i>	<i>1100</i>		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

10' interval
5:45 - 5:55

45 31 30 2
147 32 30 8

	2500		
	2600		
	2700		
	2800		
	2900	4150	100
	3000	1010	90
	3100	3150	68
	3200		1010
	3300		1010
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	# Cape J Kabanoty base S 70 1/2 E (true)			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3706 Hyd.* Date *Sept 14 1896*

Machine. Reel.

Turns *1038* Cor. + *69* Depth *1107 fms.*Shot or lead *35 lb.*Bottom *1/21 x 1/2 C. S.*

Bottom temperature

No. of thermometer *66665* Cor. - *0*Corrected temperature *36.0*Air *57* Surface *57* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

45° 20' 72
147 39 30 E

OK

2500		
2600		
2700		
2800	4150	108
2900	1038	5
3000	3131	10
3100		10.5
3200		11.5
3300		
3400		
3500		
3600		
3700		
3800		
3900		
4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3707 Hy^a* Date *Dec 1 1877*
 Machine. Reel.
 Turns *624* Cor. + *4* Depth *668 fms.*
 Shot or lead *35 lb*
 Bottom *gy. M. C. S.*
 Bottom temperature *36.5*
 No. of thermometer *6615* Cor. - *0*
 Corrected temperature *36.5*
 Air *54* Surface *54* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>18. 00</i>	<i>10. 00</i>	0	
<i>18. 10</i>	<i>9. 50</i>	100	
<i>18. 20</i>	<i>9. 40</i>	200	
<i>18. 30</i>	<i>9. 30</i>	300	
<i>18. 40</i>	<i>9. 20</i>	400	
<i>18. 50</i>	<i>9. 10</i>	500	
<i>19. 00</i>	<i>9. 00</i>	600	
<i>19. 10</i>	<i>8. 50</i>	700	
		800	
		900	
		1000	
		1100	
		1200	
		1300	
		1400	
		1500	
		1600	
		1700	
		1800	
		1900	
		2000	
		2100	
		2200	
		2300	
		2400	

5 1/2' Interval.

45° 18' 72"
147 42 8

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

2116.7
3.5-5

10.5
11.4
14.4
6.2-6
6.5

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 1/2 mi. N.W. of Shum Village

No. **3652** *SE* Date *June 16*

Hand lead Machine. Reel.

Turns Cor. + Depth **14 fms.**

~~Shot or lead~~ *Hand*

Bottom *gl. C.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *64* Surface Drift

Trawl ~~or dredge~~ *8 ft Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Shum Village
558 fms. dist

*15. Station
Sounding on the*

45 15 30 22
147 53 00 E

2500 ~~##~~ Shana Village
2600 Lat 45 15 22
2700 147 53 E
2800
2900
3000 BA Chart 2405
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2. ...
3. ...
...
...

No. 3653 02

Date

June 6, 01.

Machine. Reel.

Turns 18 Cor. + — Depth 18 fms.

Shot or lead 26 lbs

Bottom dk gy S

Bottom temperature 56.5

No. of thermometer 66665 Cor. - 0

Corrected temperature 56.5

Air 64 Surface 57 Drift

Trawl or dredge 8 ft Beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

1/2 interval. Shana Village S S E 2'.

45° 14' 12"
147 52 30 2

OK

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

$\frac{1}{2}$ doz Agonidae, 5 small Sculpin,
 $\frac{1}{2}$ " Small Rounders, 2 sp., 1 very
 1/2 hr. Sable Dollidae.

No. **3708** *Hyd.* Date *Aug 1 1882*

Machine. Reel.

Turns **27** Cor. + **—** Depth **27 fms.**Shot or lead **26**Bottom *dk gy s*Bottom temperature **50.0**No. of thermometer **66665** Cor. **-0**Corrected temperature **50.0**Air **64** Surface **58** Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.52.00 *53.30*

0

5.50 *1.25.00*

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*11.40.00**Shana Wilcox! ESE. about 2 in.*

// 45° 16' N
 147 52' E

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>As the sounding took following true bearing.</i>			
50				
100				
200	<i>Shana Village.</i>			
300			S 63" E	
400		<i>Tangent Land to</i>	Sd	S 56" W
500	"	" to	Nd	N 5" E
600	<i>Shana (BA Chart 2405)</i>			
700				
800			45° 15' N	
900			147° 56' E	
1000				

REMARKS:

No. *3709 Hyd.* Date *Sept. 6 '96*
 Machine. Reel.

Turns *289* Cor. + *23* Depth *312 fms*

Shot or lead

Bottom *gn M. fine S.*

Bottom temperature *35.7*

No. of thermometer *66665* Cor. - *0*

Corrected temperature *35.7*

Air *64* Surface *58* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

A.M.	SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
	DOWN.	UP.		DOWN.	UP.
	<i>11.44.20</i>	<i>51.35</i>	0		
	<i>11.51.10</i>	<i>51.10</i>	100		
	<i>11.58.00</i>	<i>49.55</i>	200		
	<i>12.04.50</i>	<i>11.49.20</i>	300		
			400		
			500		
			600		
			700		
			800		
			900		
			1000		
			1100		
			1200		
			1300		
			1400		
			1500		
			1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		

45 16 30 72
147 45 00 8

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

1.5
2.8
3.12

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3710 Hyd.* Date *Sept 6 '96*
Sigsbee Machine. Reel. *Hand #1*
 Turns *758* Cor. + *52* Depth *810 fms.*
 Shot or lead *35 lb*
 Bottom *gn M. S.*
 Bottom temperature *36°*
 No. of thermometer *66665* Cor. *-0*
 Corrected temperature *36.0*
 Air *60* Surface *58* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.19.17</i>	<i>21.00</i>	0		
<i>20.21</i>	<i>20.06</i>	100		
<i>21.21</i>	<i>19.10</i>	200		
<i>22.22</i>	<i>18.14</i>	300		
<i>23.22</i>	<i>17.21</i>	400		
<i>24.22</i>	<i>16.20</i>	500		
<i>25.28</i>	<i>15.23</i>	600		
<i>26.37</i>	<i>14.25</i>	700		
<i>27.40</i>	<i>13.25</i>	800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

45° 18' 00" N
147 31 00 E

OK

	2500		
	2600		
	2700		
	2800		
	2900	4450	158.
	3000	308	106
	3100	3411	101
	3200		755
	3300		810
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3711* *Hyd.* Date *July 11 1896*
Sigsbee Machine. Reel. *No. 1*
 Turns *1542* Cor. + *98* Depth *1640 fms.*
 Shot or lead *35 lb*
 Bottom *gn M. S. fine S.*
 Bottom temperature *36°*
 No. of thermometer *66665* Cor. - *0*
 Corrected temperature *36.0*
 Air *60* Surface *54* Drift
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>1.46.20</i>	<i>21.28</i>	0		
<i>47.10</i>	<i>21.30</i>	100		
<i>48.08</i>	<i>20.36</i>	200		
<i>49.11</i>	<i>19.42</i>	300		
<i>50.15</i>	<i>18.50</i>	400		
<i>51.20</i>	<i>18.12</i>	500		
<i>52.22</i>	<i>17.22</i>	600		
<i>53.29</i>	<i>16.31</i>	700		
<i>54.50</i>	<i>15.34</i>	800		
<i>56.08</i>	<i>14.31</i>	900		
<i>57.30</i>	<i>13.29</i>	1000		
<i>58.57</i>	<i>12.29</i>	1100		
<i>4.00.28</i>	<i>11.37</i>	1200		
<i>02.00</i>	<i>10.29</i>	1300		
<i>03.26</i>	<i>09.25</i>	1400		
<i>05.32</i>	<i>08.20</i>	1500		
<i>06.20</i>	<i>4.07.40</i>	<i>1542</i> 1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

45° 19' N
147° 09' E

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4169
1543
5712

108.
60
28
150.6
5.1

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. **3712 Hyd.** Date **Feb 6 1886**
 Machine. Reel.
 Turns **1642** Cor. + **102** Depth **1744 fms**
 Shot or lead **60 lbs**
 Bottom **gy. M. & S.**
 Bottom temperature **35.68**
 No. of thermometer **6660** Cor. **-0**
 Corrected temperature **35.68**
 Air **60** Surface **58** Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
02.40	13.20	1300		
	13.05	1400		
	11.00	1500		
06.15	145	1600		
06.40	08.30	1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

45 21 00 h
146 27 00 S

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4160 158
1642 56
2527 102
1649
1744

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3713 H^g. Date Sept 1, 96

Machine. 2 Reel.

Turns 1600 Cor. + 100

Depth 1700 fms.

Shot or lead 60 lbs.

Bottom fm mss

Bottom temperature 36.

No. of thermometer 6666.5 Cor. - 0

Corrected temperature 36.0

Air 61 Surface 58 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1. 00.00	1. 00.00	0
2. 00.10	2. 00.10	100
3. 00.20	3. 00.20	200
4. 00.30	4. 00.30	300
5. 00.40	5. 00.40	400
6. 00.50	6. 00.50	500
7. 01.00	7. 01.00	600
8. 01.10	8. 01.10	700
9. 01.20	9. 01.20	800
10. 01.30	10. 01.30	900
11. 01.40	11. 01.40	1000
12. 01.50	12. 01.50	1100
13. 02.00	13. 02.00	1200
14. 02.10	14. 02.10	1300
15. 02.20	15. 02.20	1400
16. 02.30	16. 02.30	1500
17. 02.40	17. 02.40	1600
18. 02.50	18. 02.50	1700
19. 03.00	19. 03.00	1800
20. 03.10	20. 03.10	1900
21. 03.20	21. 03.20	2000
22. 03.30	22. 03.30	2100
23. 03.40	23. 03.40	2200
24. 03.50	24. 03.50	2300
25. 04.00	25. 04.00	2400

45 23 2
145 46 8

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4169 158
1650 58
2569 100

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3714 Hyd.*, Date *Sept 7 '96*
Sigsbee Machine. Reel. *Hand #2*
 Turns *1551* Cor. + *98* Depth *1649 fms.*
 Shot or lead *60 lb*
 Bottom *gy M & S.*
 Bottom temperature *35.0*
 No. of thermometer *66665* Cor. *-0*
 Corrected temperature *35.9*
 Air *60* Surface *57* Drift
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

Am	DOWN.	Am	UP.	TURNS.	DOWN.	UP.
	<i>6.14.00</i>		<i>46.30</i>	0		
	<i>17.48</i>		<i>45.32</i>	100		
	<i>18.31</i>		<i>44.23</i>	200		
	<i>19.10</i>		<i>43.21</i>	300		
	<i>19.58</i>		<i>42.27</i>	400		
	<i>20.59</i>		<i>41.27</i>	500		
	<i>21.57</i>		<i>40.28</i>	600		
	<i>22.57</i>		<i>39.33</i>	700		
	<i>23.57</i>		<i>38.41</i>	800		
	<i>24.57</i>		<i>37.47</i>	900		
	<i>25.57</i>		<i>36.57</i>	1000		
	<i>26.57</i>		<i>36.00</i>	1100		
	<i>27.57</i>		<i>35.00</i>	1200		
	<i>28.57</i>		<i>34.00</i>	1300		
	<i>29.57</i>		<i>33.04</i>	1400		
	<i>30.57</i>		<i>32.03</i>	1500		
	<i>31.57</i>		<i>31.03</i>	1600		
	<i>32.57</i>		<i>30.03</i>	1700		
				1800		
				1900		
				2000		
				2100		
				2200		
				2300		
				2400		

45 25 2
145 02 8

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

2150

155

2005

158

15

173

155

155

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3715. *Hyd.* Date *July 1, 1886*

Machine. Reel.

Turns *435* Cor. + *33* Depth *468 fms.*Shot or lead *60 lb.*Bottom *gy. m. s.*Bottom temperature *36.5*No. of thermometer *66665* Cor. *-0*Corrected temperature *36.5*Air *62* Surface *57* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>10.34.00</i>	<i>4.10</i>	0	
<i>40.00</i>	<i>11.30</i>	100	
<i>41.00</i>	<i>16.00</i>	200	
<i>42.00</i>	<i>20.30</i>	300	
<i>43.00</i>	<i>25.00</i>	400	
<i>44.00</i>	<i>29.30</i>	<i>435</i>	
		500	
		600	
		700	
		800	
		900	
		1000	
		1100	
		1200	
		1300	
		1400	
		1500	
		1600	
		1700	
		1800	
		1900	
		2000	
		2100	
		2200	
		2300	
		2400	

*Interval 30.1**61.7*

45 27 12
144 21 8

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4160
235
3734

108

125

225
258

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

MSH
507.

No. *3716 H²* Date *Dec 11 1906*
Machine. *Sigsbee* Reel.

Turns *113* Cor. + *9* Depth *122 fms*

Shot or lead *35*

Bottom *gy S*

Bottom temperature *33*

No. of thermometer *66665* Cor. - *0*

Corrected temperature *33.0*

Air *62* Surface *56* Drift

Trawl or dredge

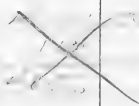
SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>711</i> 36.30	<i>40.10</i>	0		
37.38	39.	100		
		<i>113</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Intermed 330'

45° 31' 2"
143 38 E

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000



SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3717* *Hyd.* Date *Aug 11 1881**Sigsbee* Machine. Reel.Turns *67* Cor. + *1*Depth *68 fms.*Shot or lead *36 lb*Bottom *gn M.*Bottom temperature *34°*No. of thermometer *6555* Cor. *-0*Corrected temperature *34.0*Air *61*Surface *57*

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.21</i>	<i>5.25.15</i>	0		
<i>22.00</i>		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

45° 34' 2"
143° 12' 8"

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

530
67
1102

5
4
6
5

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3718 Hy^d* Date *Sept 10 1886*
Tanner Machine. Reel.
 Turns *61* Cor. + *1* Depth *62 fms.*
 Shot or lead *36 lb*
 Bottom *gy. M.*
 Bottom temperature *32°*
 No. of thermometer *66665* Cor. *- 0*
 Corrected temperature *32.0*
 Air *60* Surface *59* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>5.48.32</i>	<i>5.50.00</i>	0		
<i>5.49.00</i>	<i>5.50.30</i>	1		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

3718 = 21.9

45° 36 30 h
142 58 00 S

OK	2500		
	2600		
	2700		
	2800	530	5
	2900	61	5
	3000	59	5
	3100		62
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Re coils of Sigsbee. read 1000.
Lower part of Sigsbee wire open in bottom,
and 1000 wire open for about 1
minute at different depths.

No. 3654 Date

Machine. Reel

Tides Cor. +

Depth 10 1/2 fms.

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

8 ft 6 in

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hakodadi Bay

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1. A fine 76.1000 sp.
The rest of the ...

No. **3655** Date **May 1 1880**

Machine. Reel.

Turns Cor. +

Depth **12 fathoms**

Shot or lead

Bottom **fine sand**

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air **26** Surface **25** Drift

Trawl or dredge **8 ft. Beam**

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

</

2001.

No. 3656 82

Date

Machine.

Reel.

Turns

Cor. +

Depth

11 1/2 fms

Shot or lead

Bottom

gr 771 + 5.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

66

Surface

67

Drift

Trawl or dredge

8 ft Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9.50.00	10.05.00
		20	9.51.30	10.02.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alatodati Bay

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

... ..
... ..
... ..

No. **3657** **D** Date **Sept 1 1896**

Machine. Reel.

Turns **1600** Cor. +Depth **132 fms**~~Shot or lead~~Bottom **fine g. s. sp.**

Bottom temperature

No. of thermometer **U** Cor.

Corrected temperature

Air **67** Surface **61** DriftTrawl or dredge **8 ft B. m.**

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		100	10.19.10	10.34.15
		200	10.24.00	10.22.00
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Alkodale Bay

OK.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*1. 1000 fms, 1 mile depth,
1 mile depth, 2 miles depth,
3 miles depth, and
4 miles depth, 5 miles depth,
and 6 miles depth.*

No. *3658 D* Date *Feb 1 1880*

Machine. Reel.

Turns Cor. + Depth *22 fms*

~~Shot or lead~~

Bottom *fine gy S.*

Bottom temperature *U*

No. of thermometer Cor.

Corrected temperature

Air Surface *67* Drift

Trawl or dredge *8 ft 12 in*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>10 10.00</i>	<i>10 10.00</i>
		<i>115</i>	<i>10 22.00</i>	<i>10 22.00</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hakodate Bay

OK.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*When raised 1 fath. ...
2 fath. ...*

No. *3659* *DL* Date *May 10 1896*
 Machine. Reel.

Turns *Hand* Cor. +

Depth *152 fms.*

~~Shot or lead~~

Bottom *fine - gy. s.*

Bottom temperature

No. of thermometer *✓*

Cor.

Corrected temperature

Air *68* Surface *65* Drift

Trawl or dredge *sp. beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>110</i>	<i>2100</i>
		100		<i>1900</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Hakodate Bay

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

4. Temperature 2 deg. 1. Surface,
1. Current fish - 1. Small, small
the water, - 1. Small, small
the water, - 1. Small, small
the water, - 1. Small, small
the water, - 1. Small, small

No.

3660.52

Date

Feb 11

Machine.

Reel.

Turns

Cor. +

Depth

142 fms.

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

68

Surface

65

Drift

Trawl or dredge

1 ft Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

11.25.10

100

20

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Atakodati Bay.

OK

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 shell.

No. **3661** Date **Oct 18, 95**

Machine. Reel.

Turns **167** Cor. + **2** Depth **169 fms.**

Shot or lead **26 lbs.**

Bottom **M. Pb**

Bottom temperature **48.**

No. of thermometer **66665** Cor. **-0**

Corrected temperature **48.0**

Air **60** Surface **72** Drift

Trawl or dredge **8 ft. beam**

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

20

33.15

0

10 11 25

23.45

30 15

32.10

100

12.45

11.22

50

10.50.55

200

50.50

8.25

300

50.55

11.27.30

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Gulf of Tokyo.

OK

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Isurugi Light

N¹/₄S.

Uki Shima

SE¹/₄E.

520

65

167

363

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Wire pulled up on higher machine
at top of wire and spliced
new stray line.

No. *3719 Hyd.* Date *April 2, 1887*
Machine. Reel.

Turns *49* Cor. + /

Depth *48 fms*

Shot or lead *26 lb.*

Bottom *fine gy. S*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *66* Surface *59*

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

1 1/2 min. Temp. 2500	4500	4000
5 1/2 min. Temp. 2600	3500	3000
	2700	2200
	2800	1900
	2900	1600
	3000	1300
	3100	1000
	3200	700
	3300	400
	3400	100
	3500	0
	3600	
	3700	
	3800	
	3900	
	4000	

Simple Correction.

4159 157

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	44.1	17	0.1	44.0
50	43.8	17	0.1	43.7
100	43.5	17	0.1	43.4
200	43.2	17	0.1	43.1
300	42.9	17	0.1	42.8
400	42.6	17	0.1	42.5
500	42.3	17	0.1	42.2
600	42.0	17	0.1	41.9
700	41.7	17	0.1	41.6
800	41.4	17	0.1	41.3
900	41.1	17	0.1	41.0
1000	40.8	17	0.1	40.7

REMARKS:

No. *3720 Hyd.* Date *April 29*
Reimer Machine. Reel.
 Turns *26* Cor. + *1* Depth *27 fms*
 Shot or lead *26 lb*
 Bottom *fine gy. s.*
 Bottom temperature
 No. of thermometer Cor.
 Corrected temperature
 Air *66* Surface *77* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400

14th Station July 21. 1891.
 Sigsbee

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

Corⁿ Changed for
 Sigsbee Tables.

4159

151

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	1.29. 1st time in line twice for 19 minutes caught 2 deep fish.			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. ~~2720~~

Date

Tanner

Machine.

Reel.

Turns 51 Cor. + 1

Depth 52 fms

Shot or lead 36 lb

Bottom fine sand

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 66

Surface 69

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2 57.10

57.10

58.00

2 58.10

0
100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

55	Calabro	2500	5th.
25	27 E. S. S.	2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	<i>3.00 for 18 minutes</i> <i>one dog feed</i>			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

April 7 97

Sigsbee Machine.

Reel.

Turns 44 Cor. + -

Depth 44 fms

Shot or lead 26 lb.

Bottom fine gy. s.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 66

Surface 79

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Check over 14 thermometers at 25 fms 13 minutes</i>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *1* Date *Apr 7 9*
Tanner Machine. Reel.
 Turns *38* Cor. + *—* Depth *38*
 Shot or lead *76 lbs*
 Bottom *gy. m. s. sh.*
 Bottom temperature *6*
 No. of thermometer Cor.
 Corrected temperature
 Air *66* Surface *67* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>24</i>		0		
<i>15.00</i>	<i>4.17.50</i>	<i>32</i>		
<i>4.18.00</i>	<i>4.16.00</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Surface Temperature

152.3

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. _____ Date *Apr. 8, 1897.*
Tanner Machine. Reel. _____
 Turns *49* Cor. + *1* Depth *50*
 Shot or lead *26 lbs.*
 Bottom *fine gy. s.*
 Bottom temperature _____
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air _____ Surface _____ Drift _____
 Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10-05-10</i>	<i>06-55</i>	0		
<i>5-50</i>	<i>10-06-00</i>	<i>100</i>		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

San Juan Island

off Eastern End

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Put over all hand lines at 10.08 am.
In at 10.20, — 12 min. caught nothing*

No. *3662* Date *Apr. 8, 1897.*

Tanner Machine. Reel.

Turns *46* Cor. + *1*Depth *47*Shot or lead *26 lbs.*Bottom *fine gy S*Bottom temperature *52.0*No. of thermometer *78511*Cor. *-0.3*Corrected temperature *51.7*Air *69*Surface *58*

Drift

Trawl or dredge *11 ft.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

AM *10-57-45**59-30*

0

AM *11-03-00**25-20**58-20**10-58-25**80*
~~100~~*09-10**11-20-30*

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Santa Catalina Is.

1 1/2 miles off Anacapa

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

530

5

46

484

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300	Caught.			
400	2 lge jabs Large Holothurians			
500	Many flounders, 2 sps, 1 turbot 2020			
600	Many Urchins 2 sps			
700	Few Brachiopods & Cup Corals			
800	Few Hard Red Stars			
900	Few lge Shells & Hermit			
1000	Numerous small Sculpins			
	" " Flounders			
	3 very small stars			
	1 shell with ascidians attached			
	1 Naked Mollusk			
	2 small fragments sponge			
	4 small shrimp			
	Few small Shells 2 sps			
	2 Mossy Crabs, small			

REMARKS:

No. 3663 Dr. Date Apr 8, 1897

Tanner Machine. Reel.

Turns 46 Cor. + 1. Depth 47

Shot or lead 26 lbs.

Bottom fine gy S

Bottom temperature 52.8

No. of thermometer 78511 Cor. -0.3

Corrected temperature 52.5

Air 69 Surface 58 Drift

Trawl or dredge 11 ft.

SOUNDING WIRE.

am. DOWN. UP.

11-31-55 32-30

32-30 11-37-35

TURNS.

0

90
100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

DREDGE ROPE.

am. DOWN. UP.

11-34-40 53-50

39-20 11-49-45

1 1/2 miles off Avalon (Dakins' Cove)
Santa Catalina Is.

Caught.

- 1 lge red Holothurian
- 1 " shell
- 2 Hard Stars
- 1 lge Star, brittle, not saved
- 2 " jars Flounders, 2 sps
- Numerous Urchins 2 sps
- Lge worm tube & worm
- 1 Permatula, one very small
- Many young Flounders
- Several " Sculpins
- 1 small Octopus
- 3 " Shells
- 1 " Star
- 1 " Ophiurian
- 3 " Shrimp
- 1 Fish, not known.